Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-21-72** **Date: 21/11/2018**

Customer : Assistant Executive Engineer, T Dasarhalli Sub Division, BBMP, Bangalore.

Address : T Dasarhalli Sub Division, BBMP, Bangalore.

Project Name : Providing and Construction of CC Roads and Drains at Sujatha Tent Front Side and Rekha Changappa House Road T.Dasarahalli Ward No.15

Agency : Sri.Jagadish K, #3424, 6th Cross Gayathri Nagara, Bangalore-21

Customer's Reference : EE/DD/WO/39/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-11-18

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/11/2018	21/11/2018	149.21 X 150.06 X 150.99	22390	**8.034**	403.2	18.0	18.2
2	Drain Bottom Slab Concrete	M20	14/11/2018	21/11/2018	151.67 X 150.51 X 150.04	22828	**8.018**	418.5	18.3	
3	Drain Bottom Slab Concrete	M20	14/11/2018	21/11/2018	150.79 X 151.32 X 149.29	22818	**8.495**	417.4	18.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-01-21-72** **Date: 12/12/2018**
Customer	:	Assistant Executive Engineer, T Dasarhalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarhalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Construction of CC Roads and Drains at Sujatha Tent Front Side and Rekha Changappa House Road T.Dasarahalli Ward No.15
Agency	:	Sri.Jagadish K, #3424, 6th Cross Gayathri Nagara, Bangalore-21
Customer's Reference	:	EE/DD/WO/39/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-11-18
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/11/2018	12/12/2018	151.55 X 151.42 X 150.56	22947	**8.294**	538.4	23.5	22.9
2	Drain Bottom Slab Concrete	M20	14/11/2018	12/12/2018	151.37 X 149.33 X 150.18	22604	**8.609**	498.0	22.0	
3	Drain Bottom Slab Concrete	M20	14/11/2018	12/12/2018	149.61 X 150.03 X 150.34	22446	**8.053**	521.8	23.2	

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Quality Manager

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2019-01-21-72** **Date: 21-11-18**
Customer	:	Assistant Executive Engineer, T Dasarhalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarhalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Construction of CC Roads and Drains at Sujatha Tent Front Side and Rekha Changappa House Road T.Dasarahalli Ward No.15
Agency	:	Sri.Jagadish K, #3424, 6th Cross Gayathri Nagara, Bangalore-21
Customer Reference	:	EE/DD/WO/39/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-11-18
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	19-11-18
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2019-01-21-72**	**Date: 21-11-18**
Customer	:	Assistant Executive Engineer, T Dasarhalli Sub Division, BBMP, Bangalore.	
Address	:	T Dasarhalli Sub Division, BBMP, Bangalore.	
Project Name	:	Providing and Construction of CC Roads and Drains at Sujatha Tent Front Side and Rekha Changappa House Road T.Dasarahalli Ward No.15	
Agency	:	Sri.Jagadish K, #3424, 6th Cross Gayathri Nagara, Bangalore-21	
Customer Reference	:	EE/DD/WO/39/18-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	19-11-18	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	19-11-18	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Date: 21-11-18

Lab ID	:	**CP-RW-2019-01-21-72**
Customer	:	Assistant Executive Engineer, T Dasarhalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarhalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Construction of CC Roads and Drains at Sujatha Tent Front Side and Rekha Changappa House Road T.Dasarahalli Ward No.15
Agency	:	Sri.Jagadish K, #3424, 6th Cross Gayathri Nagara, Bangalore-21
Customer Reference	:	EE/DD/WO/39/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-11-18
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	19-11-18

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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Date: 21/11/2018

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Agency	:	Sri.Jagadish K, #3424, 6th Cross Gayathri Nagara, Bangalore-21
Customer's Reference	:	EE/DD/WO/39/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-11-18
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/11/2018	21/11/2018	149.83 X 149.05 X 151.22	22333	8.998	419.1	18.8	18.7
2	Drain Bottom Slab Concrete	M20	14/11/2018	21/11/2018	150.83 X 150.14 X 151.33	22645	8.189	423.8	18.7	
3	Drain Bottom Slab Concrete	M20	14/11/2018	21/11/2018	149.63 X 150.19 X 150.47	22474	8.738	416.0	18.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-01-21-72 **Date: 12/12/2018**
Customer	:	Assistant Executive Engineer, T Dasarhalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarhalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Construction of CC Roads and Drains at Sujatha Tent Front Side and Rekha Changappa House Road T.Dasarahalli Ward No.15
Agency	:	Sri.Jagadish K, #3424, 6th Cross Gayathri Nagara, Bangalore-21
Customer's Reference	:	EE/DD/WO/39/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-11-18
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/11/2018	12/12/2018	151.27 X 151.69 X 150.12	22946	**8.344**	549.4	23.9	23.1
2	Drain Bottom Slab Concrete	M20	14/11/2018	12/12/2018	150.16 X 151.50 X 151.16	22750	**8.086**	504.0	22.2	
3	Drain Bottom Slab Concrete	M20	14/11/2018	12/12/2018	151.30 X 150.94 X 151.90	22836	**8.294**	530.6	23.2	

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